

PRESSURE DAMPER FOR INK JET PRINTER

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Inventor(s): TAKADA NOBORU; others: 03
Applicant(s): FUJITSU LTD
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Abstract

PURPOSE: To obtain a damper for ink jet printer the structure of which is simple, small-sized and highly reliable by a method wherein a filter for moving foreign matter in ink is provided to a pressure absorption part of a pressure damper.

CONSTITUTION: For a pressure absorption part 32 of a pressure damper 31, a passage sectional area is large, and flow rate of ink is small. Further, a bubble entered the pressure absorption part 32 can not pass by being interrupted with a filter 33, and moves to an upside air reservoir by buoyancy. This bubble 36 can be periodically extracted from a passage 35. Further, fine particles such as dust or the like having reached the filter 33 are collected with the filter 33. A quantity of this fine particles is little. Further, since the filter 33 is installed to a larger area pressure absorption part 32 by being compared with an ink discharge part 4 or the like, fine particles collected with the filter 33 give no influence on a flow of the ink. Further, since the pressure damper is united as one body with the filter, handling of the damper is simple and its mounting on the ink jet printer can be also easily performed.

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